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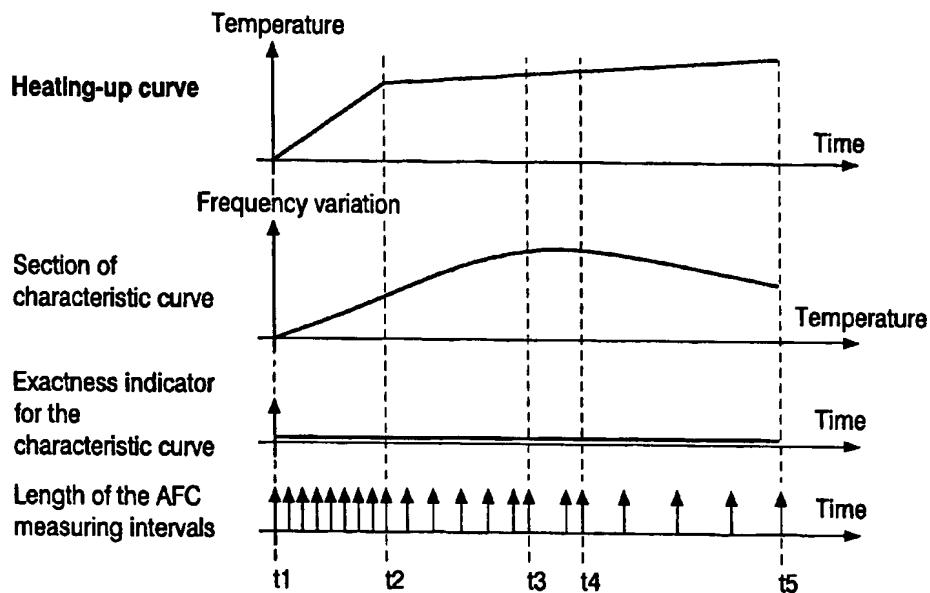
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(54) Title: METHOD AND ARRANGEMENT FOR FREQUENCY SYNCHRONIZATION OF A MOBILE STATION WITH A BASE STATION IN A MOBILE COMMUNICATION SYSTEM



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(57) Abstract: In a method for synchronizing a mobile station with the base station in a mobile communication system, a reference-frequency oscillator is re-adjusted. To enable an inexpensive reference-frequency oscillator of simple construction to be used, the frequency variations resulting from a change in the temperature of the mobile station and a change in its location are determined and/or predicted separately. When the frequency variations are large, the mobile station is synchronized with the base station more frequently than when they are small.



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